

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

F04-05136860

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/002317

International filing date (day/month/year)

16.02.2005

Priority date (day/month/year)

26.02.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

Konica Minolta Holdings, Inc.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

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Box No. 1 Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

☐ a sequence listing

☐ table(s) related to the sequence listing

b. format of material

☐ in written format

☐ in computer readable form

c. time of filing/furnishing

☐ contained in the international application as filed.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	9, 10, 12, 13, 16-19, 21	YES
	Claims	1-8, 11, 14, 15, 20, 22-24	NO
Inventive step (IS)	Claims	9, 10, 12, 13, 18, 19, 21	YES
	Claims	1-8, 11, 14-17, 20, 22-24	NO
Industrial applicability (IA)	Claims	1-24	YES
	Claims		NO
2. Citations and explanations:			
<p>1. JP 2003-109758 A (Konica Corporation)</p> <p>2. JP 2003-342284 A (Canon Inc.)</p> <p>3. JP 8-88083 A (Mitsubishi Chemical Corporation)</p> <p>Claims 1, 2, 3, 4, 5, 6, 7, 8, 11, 14 and 15</p> <p>Document 1 cited in the ISR describes a light emitting material for an organic electroluminescence element having a ligand of the invention of the present application (claims, paragraphs 0043-0048, pp. 11-13). Document 1 also describes using platinum as a metal element (claim 1); therefore, document 1 is considered to describe an organic electroluminescence element material of the invention of the present application.</p> <p>Claims 9 and 10</p> <p>None of the documents cited in the ISR either describes or suggests an organic electroluminescence element material represented by formulas (7) and (8) of the present application.</p> <p>Claims 12 and 13</p> <p>None of the documents cited in the ISR either describes or suggests that a platinum chain formed from an aryl group or aromatic heterocyclic group being not capable of free rotation has a subsistent group.</p> <p>Claims 16 and 17</p> <p>Compounds represented by formulas (10) and (11) are well-known host materials (see, for example, document 2, paragraphs 0011-0012; and document 3, claims).</p> <p>Claims 18, 19 and 21</p> <p>None of the documents cited in the ISR either describes or suggests that a carbocyclic derivative is contained in a light emitting layer or hole inhibiting layer.</p> <p>Claims 20 and 22</p> <p>Document 1 describes using a boron derivative for an electron transport layer (paragraph 0199), and in the present technical field, using an electron transport layer for a hole inhibiting layer is a well-known technology; therefore, document 1 is considered to describe providing a hole inhibiting layer substantially comprising a boron derivative.</p>			

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

Claims 23 and 24

Both display and illumination device are applications of a well-known organic electroluminescence element